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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-17-02** **Date: 19-05-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC Roads in Yelahanka old town and surrounding area in Ward No.02 Yelahanka Sub Division.
Agency	:	Sri. Sambashiva Reddy. C, No.14, 6th C Cross, 2nd main, Goppalappa Extenstion, Marorayan Palya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/31/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-05-17
Sample ID No	:	2017-05-17-02/01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	18-05-17

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.52	_
2	Finess by Air permeablity method (m^2/kg, Min)	278.4	225m^2/kg, Min
3	Density (gm/cc)	3.22	_
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	295 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:
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Prepared by
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
KARTHIK RECHAN
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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-05-17-02 **Date: 15-06-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC Roads in Yelahanka old town and surrounding area in Ward No.02 Yelahanka Sub Division.
Agency	:	Sri. Sambashiva Reddy. C, No.14, 6th C Cross, 2nd main, Goppalappa Extenstion, Marorayan Palya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/31/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-05-17
Sample ID No	:	2017-05-17-02/01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	18-05-17

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-17-02** **Date: 20-05-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC Roads in Yelahanka old town and surrounding area in Ward No.02 Yelahanka Sub Division.
Agency	:	Sri. Sambashiva Reddy. C, No.14, 6th C Cross, 2nd main, Goppalappa Extenstion, Marorayan Palya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/31/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	17-05-17
Sample ID No	:	2017-05-17-02/02
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	17-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	6985	7199	48.0	52.0	30-70
4	10 mm	4275	11474	76.5	23.5	10-35
5	4.75 mm	3218	14692	97.9	2.1	0-5
6	Pan	308	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-05-17-02 **Date: 20-05-2017**

Sample ID No : 2017-05-17-02/02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.22	–

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-05-17-02** **Date: 20-05-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC Roads in Yelahanka old town and surrounding area in Ward No.02 Yelahanka Sub Division.
Agency	:	Sri. Sambashiva Reddy. C, No.14, 6th C Cross, 2nd main, Goppalappa Extenstion, Marorayan Palya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/31/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-05-17
Sample ID No	:	2017-05-17-02/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	17-05-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	45	45	4.5	95.5	90-100	90-100	90-100	95-100
3	2.36 mm	132	177	17.7	82.3	60-95	75-100	85-100	95-100
4	1.18 mm	213	390	39.0	61.0	30-70	55-90	75-100	90-100
5	600 micron	217	607	60.7	39.3	15-34	35-59	60-79	80-100
6	300 micron	228	835	83.5	16.5	5-20	8-30	12-40	15-50
7	150 micron	118	953	95.3	4.7	0-10	0-10	0-10	0-15
8	Pan	47	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-05-17-02**

Sample ID No : 2017-05-17-02/03

Date: 20-05-17

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.98	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	4.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-05-30-03 **Date: 01-06-17**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to CC Roads in Yelahanka old town and surrounding area in Ward No.02 Yelahanka Sub Division.

Agency : Sri. Sambashiva Reddy. C, No.14, 6th C Cross, 2nd main, Goppalappa Extenstion, Marorayan Palya, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-08/W.O/31/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-05-17

Sample ID No : 2017-05-30-03/01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/06/2017

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	25/05/2017	01/06/2017	150.41 X 150.98 X 150.42	22709	8.149	397.4	17.5	18.0
2	Drain Concrete	M20	25/05/2017	01/06/2017	151.17 X 150.65 X 150.32	22774	8.174	412.2	18.1	
3	Drain Concrete	M20	25/05/2017	01/06/2017	150.44 X 151.54 X 150.41	22798	8.155	417.2	18.3	

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-05-30-03 **Date: 22-06-17**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to CC Roads in Yelahanka old town and surrounding area in Ward No.02 Yelahanka Sub Division.

Agency : Sri. Sambashiva Reddy. C, No.14, 6th C Cross, 2nd main, Goppalappa Extenstion, Marorayan Palya, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-08/W.O/31/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-05-17

Sample ID No : 2017-05-30-03/02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	25/05/2017	22/06/2017	149.82 X 150.33 X 150.47	22522	8.165	536.0	23.8	23.5
2	Drain Concrete	M20	25/05/2017	22/06/2017	150.47 X 150.69 X 150.33	22674	8.158	526.0	23.2	
3	Drain Concrete	M20	25/05/2017	22/06/2017	149.68 X 150.37 X 149.78	22507	8.195	528.9	23.5	

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-05-30-03 **Date: 02-06-17**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to CC Roads in Yelahanka old town and surrounding area in Ward No.02 Yelahanka Sub Division.

Agency : Sri. Sambashiva Reddy. C, No.14, 6th C Cross, 2nd main, Goppalappa Extenstion, Marorayan Palya, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-08/W.O/31/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-05-17

Sample ID No : 2017-05-30-03/03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	26/05/2017	02/06/2017	149.45 X 150.77 X 150.65	22533	8.128	392.1	17.4	17.4
2	Drain Concrete	M20	26/05/2017	02/06/2017	150.24 X 150.74 X 150.44	22647	8.217	387.3	17.1	
3	Drain Concrete	M20	26/05/2017	02/06/2017	150.98 X 150.33 X 150.74	22697	8.175	399.5	17.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2017-05-30-03 Date: 23-06-17
tomer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
ldress	:	Yelahanka Sub Division, BBMP, Bangalore.
roject Name	:	Improvements to CC Roads in Yelahanka old town and surrounding area in Ward No.02 Yelahanka Sub Division.
Agency	:	Sri. Sambashiva Reddy. C, No.14, 6th C Cross, 2nd main, Goppalappa Extenstion, Marorayan Palya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/31/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-05-17
Sample ID No	:	2017-05-30-03/04
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	26/05/2017	23/06/2017	150.88 X 150.65 X 150.33	22730	8.168	547.8	24.1	23.8
2	Drain Concrete	M20	26/05/2017	23/06/2017	150.78 X 150.66 X 149.87	22717	8.201	540.7	23.8	
3	Drain Concrete	M20	26/05/2017	23/06/2017	150.66 X 150.47 X 150.88	22670	8.198	530.5	23.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2017-05-30-03 **Date: 03-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC Roads in Yelahanka old town and surrounding area in Ward No.02 Yelahanka Sub Division.
Agency	:	Sri. Sambashiva Reddy. C, No.14, 6th C Cross, 2nd main, Goppalappa Extenstion, Marorayan Palya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/31/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-05-17
Sample ID No	:	2017-05-30-03/05
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/06/2017

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	27/05/2017	03/06/2017	150.44 X 149.35 X 150.42	22468	8.147	408.9	18.2	17.7
2	Drain Concrete	M20	27/05/2017	03/06/2017	150.33 X 150.68 X 150.98	22652	8.195	389.6	17.2	
3	Drain Concrete	M20	27/05/2017	03/06/2017	150.47 X 150.99 X 150.33	22719	8.166	404.4	17.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2017-05-30-03
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC Roads in Yelahanka old town and surrounding area in Ward No.02 Yelahanka Sub Division.
Agency	:	Sri. Sambashiva Reddy. C, No.14, 6th C Cross, 2nd main, Goppalappa Extenstion, Marorayan Palya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/31/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-05-17
Sample ID No	:	2017-05-30-03/06
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 24-06-17

Date of test : 24/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	27/05/2017	24/06/2017	150.88 X 150.68 X 150.47	22735	8.102	525.2	23.1	23.6
2	Drain Concrete	M20	27/05/2017	24/06/2017	150.69 X 150.22 X 150.69	22637	8.154	547.8	24.2	
3	Drain Concrete	M20	27/05/2017	24/06/2017	150.44 X 150.34 X 150.47	22617	8.147	531.5	23.5	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harsitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
P. Karthik R
KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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